

Order #: 39024 Order Name: Charlotte-B19-

204-03 Batch#: Order-101819 Received: 10/21/2019 Completed: 10/25/2019



Bluhen Botanicals 220 W Jackson Ave, Suite 106 Knoxville TN, 37902 (928) 300-4099 info@bluhenbotanicals.com



#### Sample



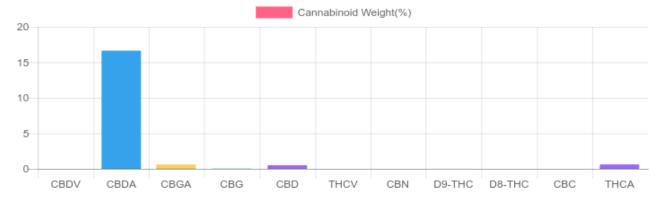
0.025% D9-THC 15.109% Total CBD

#### **Cannabinoids Test**

SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400 PREPARED: 10/21/2019 15:01:15 UPLOADED: 10/22/2019 12:48:29

Cannabinoids	LOQ	weight(%)	mg/g
	,	<u> </u>	
D9-THC	10 PPM	0.025%	0.248
THCA	10 PPM	0.608%	6.080
CBD	10 PPM	0.517%	5.167
CBDA	20 PPM	16.639%	166.389
CBDV	20 PPM	N/D	N/D
CBC	10 PPM	0.018%	0.180
CBN	10 PPM	N/D	N/D
CBG	10 PPM	0.032%	0.323
CBGA	20 PPM	0.594%	5.938
D8-THC	10 PPM	N/D	N/D
THCV	10 PPM	N/D	N/D
TOTAL D9-THC		0.025%	0.025%
TOTAL CBD*		15.109%	151.090
TOTAL CANNABINOIDS		18.433%	184.325



Reporting Limit 10 ppm \*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected, B/LOQ - Below Limit of Quantification



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GSL SOP 404

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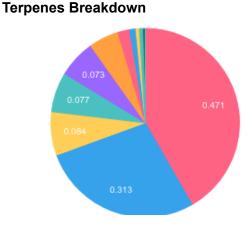


**TERPENES: TOTAL (1.129%)** 

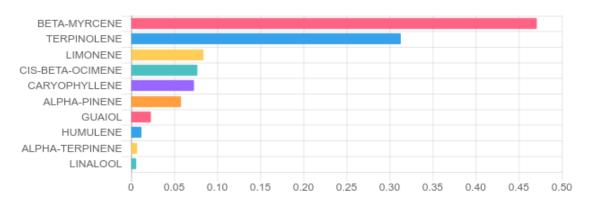
Headspace GCMS - Shimadzu GCMS QP2020 with HS20

Terpene	Results (%)	LOQ (%)	LOD (%)
3-CARENE	B/LOQ	0.0067%	0.0063%
ALPHA-PINENE	0.058%	0.0067%	0.0063%
ALPHA-TERPINENE	0.007%	0.0067%	0.0063%
BETA-MYRCENE	0.471%	0.0067%	0.0063%
CARYOPHYLLENE	0.073%	0.0067%	0.0063%
CIS-BETA-OCIMENE	0.077%	0.0067%	0.0031%
GAMMATERPINENE	B/LOQ	0.0067%	0.0016%
GUAIOL	0.023%	0.0067%	0.0063%
HUMULENE	0.012%	0.0067%	0.0063%
LIMONENE	0.084%	0.0067%	0.0063%
LINALOOL	B/LOQ	0.0067%	0.0063%
TERPINOLENE	0.313%	0.0067%	0.0063%

Prepared: 10/21/2019 17:22:50 Uploaded: 10/22/2019 16:10:28



## **Top Terpenes Results:**



#### Tested for but not present:

CAMPHENE, BETA-PINENE, TRANS-BETA-OCIMENE, P-CYMENE, EUCALYPTOL, ISOPULEGOL, GERANIOL, CIS-NEROLIDOL, TRANS-NEROLIDOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL



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## **PESTICIDE ANALYSIS:**

GSL SOP 401 PREPARED: 10/22/2019 17:55:33 UPLOADED: 10/24/2019 13:30:55

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
CAPTAN	0.700	N/D	0.003	0.001
CHLORDANE	0.100	0.584	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001
COUMAPHOS	0.100	N/D	0.003	0.001

Pesticide	Action Leve	LOQ	LOD	
resticide	(ppm)	(ppm)	(ppm)	(ppm)
CYFLUTHRIN	2.000	N/D	0.003	0.001
CYPERMETHRIN	1.000	N/D	0.003	0.001
PARATHION-METHYL	0.100	N/D	0.003	0.001
PENTACHLORONITROBENZEN	E 0.100	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.100	N/D	0.005	0.001	IMAZALIL	0.100	N/D	0.005	0.001
ACEPHATE	0.100	N/D	0.001	0.001	IMIDACLOPRID	5.000	N/D	0.005	0.001
ACEQUINOCYL	0.100	N/D	0.001	0.001	KRESOXIM-METHYL	0.100	N/D	0.010	0.005
ACETAMIPRID	0.100	N/D	0.005	0.001	MALATHION	0.500	N/D	0.005	0.001
ALDICARB	0.100	N/D	0.005	0.001	METALAXYL	2.000	N/D	0.001	0.001
AZOXYSTROBIN	0.100	N/D	0.001	0.001	METHIOCARB	0.100	N/D	0.005	0.001
BIFENAZATE	0.100	N/D	0.005	0.001	METHOMYL	1.000	N/D	0.001	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
BOSCALID	0.100	N/D	0.005	0.001	MYCLOBUTANIL	0.100	N/D	0.005	0.001
CARBARYL	0.500	N/D	0.003	0.001	NALED	0.100	N/D	0.005	0.001
CARBOFURAN	0.100	N/D	0.001	0.001	OXAMYL	0.500	N/D	0.001	0.001
CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CHLORPYRIFOS	0.100	N/D	0.001	0.001	PERMETHRINS	0.500	0.100	0.005	0.001
CLOFENTEZINE	0.100	N/D	0.001	0.001	PHOSMET	0.100	N/D	0.005	0.001
DAMINOZIDE	0.100	N/D	0.005	0.001	PIPERONYL	0.000	N/D	0.004	0.004
DIAZANON	0.100	N/D	0.001	0.001	BUTOXIDE	3.000	N/D	0.001	0.001
DICHLORVOS	0.100	N/D	0.005	0.001	PRALLETHRIN	0.100	N/D	0.005	0.005
DIMETHOATE	0.100	N/D	0.001	0.001	PROPICONAZOLE	0.100	N/D	0.010	0.005
DIMETHOMORPH	2.000	N/D	0.005	0.001	PROPOXUR	0.100	N/D	0.001	0.001
ETHOPROPHOS	0.100	N/D	0.001	0.001	PYRETHRINS	0.500	N/D	0.005	0.005
ETOFENPROX	0.100 0.100	N/D	0.001 0.010	0.001	(PYRETHRIN I) PYRIDABEN	0.100	N/D	0.005	0.001
ETOXAZOLE FENHEXAMID	0.100	N/D N/D	0.010	0.005 0.001	SPINETORAM	0.100	N/D N/D	0.005 0.001	0.001
FENOXYCARB	0.100	N/D	0.005	0.001	SPINETORAM	0.100	N/D	0.001	0.001
				0.001	SPIROMESIFEN	0.100			0.001
FENPYROXIMATE	0.100	N/D	0.001				6.461	0.005	
FIPRONIL	0.100	N/D	0.003	0.001	SPIROTETRAMAT	0.100	N/D	0.001	0.001
FLURIOVANII	0.100	N/D	0.025	0.010	SPIROXAMINE	0.100	N/D	0.001	0.001
FLUDIOXONIL	0.100	N/D	0.003	0.001	TEBUCONAZOLE	0.100	N/D	0.005	0.001
HEXYTHIAZOX	0.100	N/D	0.005	0.001	THIACLOPRID	0.100	N/D	0.001	0.001
					THIAMETHOXAM	5.000	N/D	0.001	0.001

 ${\sf N/D} = {\sf Not\ Detected},\ {\sf A/LOQ} = {\sf Above\ LOQ\ Level},\ {\sf B/LOQ} = {\sf Below\ LOQ\ Level},\ {\sf B/LOD} = {\sf Below\ LOD\ Level}$ 



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TRIFLOXYSTROBIN



0.100



0.001

0.001

N/D



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## **Microbial Analysis:**

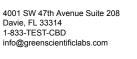
Microbial Analysis GSL SOP 406

Uploaded: 10/24/2019 09:40:21

Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	0.0857 CFU/G**	10,000	BELOW THRESHOLD	PASS

 $<sup>\ \, \</sup>text{+ USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)}$ 













<sup>\*</sup> STEC and Salmonella run as Multiplex

<sup>\*\*</sup> CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix



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## **Mycotoxin Analysis:**

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

Uploaded: 10/24/2019 13:30:55

Analyte	Action LvI (ppb)	Results (ppb)
AFLATOXIN B1	20	N/D
AFLATOXIN B2	20	N/D
AFLATOXIN G1	20	N/D
AFLATOXIN G2	20	N/D
OCHRATOXIN A	20	N/D

LOQ is 4ppb, LOD is 1ppb

# **Heavy Metals Analysis:**

ICP-MS - Shimadzu ICPMS-2030 GSL SOP 403

Uploaded: 10/22/2019 17:16:39

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb



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